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Grinding and Polishing of Aluminum and Its Alloys,
Particularly Before Anodic Oxidation, by Richard
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Full translation.

GERMAN, per, Metalloberfläche, Vol IV B, No 3, Mar 1952,
pp B36-B42.

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Scientific - Minerals/Metals

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Applied Method of Linear Characteristics
For Axial and Oblique Supersonic Flow
Around Solids of Revolution with Wing Surfaces.
by Siegfried F. Erdmann, Claus Oswatitsch.
GERMANY, Zeit für Flugwissenschaft, no. 8,
1954, pp 201-215. 9678455

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A New Simple Interferometer For Obtaining Quantita-
tively Evaluable Flow Patterns, by S. F. Erdmann,
62 pp.

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DILATION OF THE ABDOMINAL AORTA AND
DYNAMICS OF THE CIRCULATION. [1961] 7p.
(8 figs. omitted) 5 refs.
Order from SLA \$1.10

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Trans. of Deutsch[e] Ges[ellschaft] f[ur] Kreis-
laufforschung. Verhandl[ungen] (West Germany)
1956, v. 22, p. 113-117.

DESCRIPTORS: *Aorta, *Blood pressure, *Heart,
Autonomic nervous system, Reaction (Psychology),
*Nerves, Reflexes, Stimulation.

In experiments on anesthetized cats and dogs the
aorta was isolated for brief periods of time (clamped
off) and exposed to artificial pressure variations. It
was shown thereby that cardiac dynamics react to
circulatory relations in the aorta. The adequate
stimulus could not, however, be specifically
(Biological Sciences--Physiology, TT, v. 8, no. 2)
(over)

I. Erdmann, W. D.
II. Heye, D.
III. Jungmann, H.

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Following Granted by Post Control Agents, by
W. D. BROWN, 12 pp.
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1940, pp 305-302.
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Contributions to Study of Work Hardening
and Stress Relief in Aluminium and
Aluminium Alloys, by F. Erdmann-Jesnitzer,
H. Hadamovsky.

GERMAN, per, Aluminium, Vol 35, No 11,
1959, pp 626-632.

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Hot Shortness and Grain Boundary Structure in
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GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIX,
1958, pp 353-357.

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The Diffusion Grain Growth of Iron Alloys.
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228.

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7. Erdmann-Jesnitzner

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STUDY OF STRUCTURE OF VERY FINE COPPER
WIRES WITH 0.15 TO 0.02 mm DIAMETERS. [1962]
6p. (for mulac tables figs. refs. omitted).

Order from SLA \$1.10

62-16988

Trans. of Metall (West Germany) 1953, v. 7, no. 7/8,
p. 250-254.

DESCRIPTORS: *Copper wire, Drawing (Machine proc-
essing), Radiography, Crystals, Scattering, Photoen-
graving, Dies, *Lattices, *Structures, Mathematical
analysis.

Texture of very fine copper wires were tested with par-
ticular reference to the independence on the degree of
drawing. In agreement with previous work of similar
nature there is found a double fiber texture with the two
preferred positions of the crystallites along (111) and
(Metallurgy--Structural, TT, v. 9, no. 2) (ever)

62-16988

1. Erdmann-Jesnitzer, F.

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Erdmann-Jesnitzer, F. and Jehmlich, G.
THE EFFECTS OF COOLING CONDITIONS UPON
INVERSE SEGREGATION IN ALUMINIUM ALLOYS.
[1962] [19]p. (13 figs. 15 refs. omitted).

Order from SLA \$1.60

62-18103

Trans. of Aluminium (Germany) 1962, v. 38, no. 1,
p. 13-19.

DESCRIPTORS: *Aluminum alloys, *Casting,
Cooling, *Metallic crystals, Separation, Micro-
structure, *Radiography.

The investigation results published heretofore on
the extraneous criteria affecting the order of magni-
tude (difference between concentrations at inner
periphery and the middle) alter them either to larger
or smaller values, are presented. The effects of
casting temperature, the thickness of the mould
walls and the mould temperature at a constant pour -
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